## (19) World Intellectual Property Organization

International Bureau



## 

(43) International Publication Date 9 September 2005 (09.09.2005)

**PCT** 

## (10) International Publication Number WO 2005/082525 A1

(51) International Patent Classification<sup>7</sup>: B01D 53/28, 53/26

B01J 20/26,

(21) International Application Number:

PCT/JP2005/003673

(22) International Filing Date: 25 February 2005 (25.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2004-053856

27 February 2004 (27.02.2004) JI

(71) Applicant and

(72) Inventor: ABE, Fujio [JP/JP]; 263, Tenman-cho, Bukkouji-sagaru, Nishikiyamachi-tori, Shimogyo-ku, Kyoto-shi, Kyoto 600-8024 (JP).

(74) Agents: NAKAJIMA, Shiro et al.; 6F, Yodogawa 5-Bankan, 2-1, Toyosaki 3-chome, Kita-ku, Osaka-shi, Osaka 5310072 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

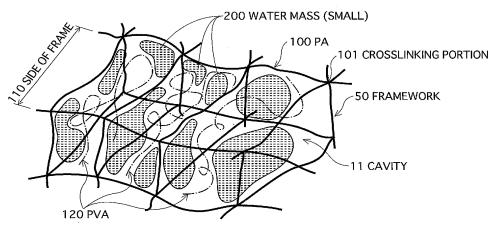
## **Published:**

- with international search report
- with amended claims

Date of publication of the amended claims: 8 December 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HUMIDITY CONDITIONER AND HUMIDITY CONDITIONING METHOD USING THE SAME



(57) Abstract: The present invention is a humidity conditioner having a configuration in which one or more water-soluble polymers are introduced into a three-dimensional framework that is formed by one or more crosslinked water-absorbing polymers. Here, for the water-absorbing polymers, either polyacrylate salt or one or more polyacrylate salt-polyvinyl alcohol copolymers can be used. For the water-soluble polymers, one or both of polyvinyl alcohol and polyisopropylacrylamide can be used.

0 0005/080505 A1 |